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METEOROLOGICAL DATA REPORT 14819B Lance Missile Number 5340 Round Number 396-APL 10 April 1984

Ъу

DONALD C. KELLER Program Support Coordinator Phone Number (505) 679-9568 AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

UNITED STATES ARMY ELECTRONICS COMMAND

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550 AD-A143

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#### INTRODUCTION

14819B Lance, Missile Number 5340, Round Number 396-APL, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1018:26 MST, 10 April 1984. The scheduled launch time was 1000 MST.

#### **DISCUSSION**

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

- 1. Observations
  - Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m<sup>3</sup>), wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
  - b. Upper Air
- (1) Low level wind data were obtained form RAPTS T-9 PIBAL observations at:

#### SITE AND ALTITUDE

LC-36 10,000 ft AGL

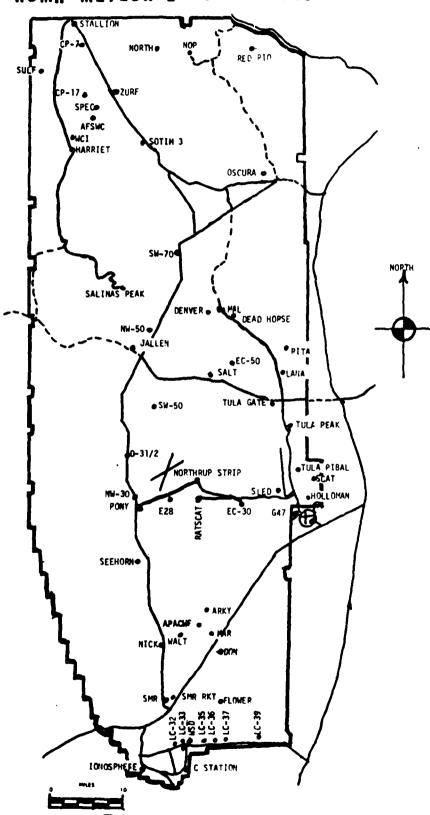
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

#### SITE AND TIME

WSD	0600	MST
WSD	0950	MST
SMR	1000	MST
Jallen	0950	MST



#### WSMR METEOROLOGICAL SITES



PPC/ECT SURFACE OBSERVATION

TABLE 1							J,	STATION	LC-39		
DATE 10	1	APR 84						(= 530,938.ξ	32 Y=	X= 530,938.82 Y= 186,564.96 H= 4,063.75	4,063.75
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PSYCHEOMETRIC COMPUTATION

TIPE: MST	1018	
DRY GULB TEMP.	16.8	
WET BULB TEMP.	9.9	
WET BULB BEPR.	10.2	
DEW POINT	-5.8	
RELATIVE HUMID.	21	

#### WINDS ALOFT DATA

TABLE NUMBER 2				
RELEASED FROM LC-36	DATE	10 Apr 84	TI!'E 0940	ST_x_fidt_
MSTM COORDINATES: X= 504,4	67.18	Y= 190,7	76.98	4040.71
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<u></u>	DIRECTION	SPEED
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400	132	21
600	022	03
800	036	11
1000	355	14
1200	005	12
1400	360	11
1600	360	12
1800	001	11
2000	002	11
2200	004	11
2400	358	09
2600	356	11
2800	360	12
3000	346	13
3200	333	13
3400	326	13
3600	322	14
3800	321	14
4000	321	17
4200	314	17
4400	308	16
4600	303	18
4800	313	18
5000	306	25
5200	308	27
5400	312	28

	DIRECTION	SPEED
HEIGHT	DEGREES	KIS
5600	31 2	27
5800	304	30
6000	30 7	28
6200	290	27
6400	288	29
6600	310	37
7000	316	37
7200	322	40
7400	318	40
7600	313	39
7800	319	39
8000	320	39
8200	321	40
8400	323	42
8600	321	42
8800	320	42
8800	320	42
9000	322	41
9200	321	40
9400	321	42
9800	318	43
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TABLE NUMBER 3						
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HEIGHT	DIPECTION DEGREES	SPEED KTS
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400	031	06
600	034	07
800	033	12
1000	041	13
1200	053	13
1 400	056	14
1600	072	20
1800	341	14
2000	041	07
2200	007	10
2400	356	06
2600	010	07
2800	344	08
3000	327	10
3200	318	09
3400	320	09
3600	294	13
3800	287	08
4000	MSG	MSG
4200	MSG	MSG
4400	290	20
4600	293	19
4800	299	25
5000	294	32
5200	294	31
5400	303	33

HEIGHT	DIRECTION DEGREES	SPEED KTS
5600	310	33
5800	314	32
6000	322	31
6200	328	<b>3</b> 2
6400	332	33
6600	334	34
6800	328	34
7000	323	36
7 200	320	35
7400	318	33
7600	316	37
7800	320	38
8000	320	37
8200	324	37
8400	325	38
8600	323	40
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GEODETIC CUORDINATES 32.4074% LAT DEG 106.3713% LON DEG

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SIGNIFICANT LEVEL DATA TABLE 4 Cont'd WHITE SANDS

GEODETIC COORDINATES STACKING LAT LEG 136.3793 LON NEG

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TEMFERATURE AIR DEWPOINT DEGREES CENTIGRADE ALTITUDE PILLIBARS PSL FEFT

REL.HUM. Pekcent

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STATION AL		89.PU FEET MSL 26UP MKS MST		UPPER AIR DAT 1010U202U2 WHITE SANDS	UATA U2 0S		ET1	C CUORDINATES
200	707 •01			TABLE 5	Cont 'd		ċ	NOT 6677
GLOME TOIC	FRLSSURE		RFL.HUM.	DEM SITY	SPEED OF	4	¥ -	INDEX
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1,4 C. O.		59.		•		,	•	000
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45.0.	•	53.			577.	÷.	•	.00001
SC 20.	Š	22		÷	578.	2	•	.0000
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STATION	ALTITUDE	3939.nd feet msl	
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THE WASHINGTON			

PFR AIR DATA 1010020202 HITE SANDS

32.40043 LAT DEG 106.37053 LON DEG GEODETIC COORDINATES 1.000078 1.000078 .000074 .000033 .0000-3 .0000. **.**000008 .00000 •00000 .00000 .00000 • 0000 ° •0000u• .00000 .00000° \$0000° • 00000 .0000° .0000. \*0000° .0000. \*: 0000° \$0000G\* .0000° \*0000° .0000° .0000 · .0000° .00000 .00001. .00000 .00000 **.**00000. \$0000° \*U0000\* \* C0001\* \* 0000° .0000 · .00000 REFRACTION INDEX 9 7.5 17.5 12.9 18.0 19.9 20.0 20.0 2000 - 500 -21.6 13.4 6. B. 0 18.4 18.8 19.8 12.0 19.5 6.5 23.5 21.4 25.7 27.5 24.5 SPEED STCNX WIND DATA DEGREES (TN) DIRECTION 88.7 99.5 112.0 29.0 131.7 133.1 34.6 2.0R 53.5 23.0 57.1 35.5 36.2 21.1 00.4 ..76 SPEED OF 583.2 583.4 583.7 583.9 584.2 589.7 590.1 590.4 590.8 593.4 584.4 591.2 591.6 591.9 6.709 592.3 592.7 593.1 95.7 596.4 595.6 195.3 94.5 SOUND TABLE 5 Cont'd 0.0 39.0 22.0 36.3 2 R . 6 56.6 43.1 21.5 21.0 2n.5 0.03 4.7 7.3 24.8 7.7 9.6 . 2.5 7.0 9.41 DENSITY GM/ CUB IC MFTER REL.HUM. PERCENT DEGREES CENTICAADE DEMPOTINT TEMPERATURE -42.0 0.67-0.63--45.0 -41.4 2.6.--48.5 -48.1 -47.7 7. 25-6.97--45.5 -45.2 9.47--44.3 -43.7 -43.4 -43.2 6.24--42.3 -41.7 -41.1 -40.0 -40.5 -40.5 -39.4 -19.1 148.0 -48.3 -42.0 4.6.5 4.97-4.44-0.77-0.07--46.1 a I v \*1LLIBARS FRESSURE 39494444 0 0 m 3.U 2.7 4-6 04-0 04-0 .02 , , 1006.0.0 1005.0.0 1016.6.0 9.15 79.0 0.00 55 9 0.00 55 9 0.00 55 9 ASCENSION 895.0.0.0 <u>.</u> د 9.5.0.0 ر د د د د د د 0.000086 0.67.340 GEOME TRIC 85.0.0 0.0000 0.0030 910:00:0 915...0 20.00.0 0.0.30 ( . . . J ALTITUDE MSL FEFT 1315 13.20 19.35 376 966

STATION ALTIT 10 APL: 84 Ascension no.	STATION ALTITUDE 3089.00 FEET "SL 10 Api. 84 0600 HAS MST Ascension No. 202	89.00 FEE 3600 HAS	7 *SL	_	UPPER AIR DATA 10.10020202 WHITE SANDS TABLE 5 CONT'd	DATA 02 10S Cont'd		GEODET1 32. 106.	GEODETIC CUORDINATES 32.40043 LAT DEG 106.37033 LON DEG	
GEOMETRIC ALTITURE PSLOFEET	PRESSURE MILLIBARS DE		TEMPERATURF 11P DEWPOINT SRIES CENTIGOADE	REL.HUM. Percent	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND MFTER KNOTS	SPEED OF Sound Knots	WIND DATA DIRECTION SI DEGREES(TN) K	SPEED KNOTS	INDEX OF REFRACTION	
10.5500.0	7.6	48.6			14.4	596.7	341.2	20.6	4.000003	
104000.0	٥. • د	-38.0			14.1	296.7	331.8	7.97	1.0000:3	
1045/20.0	9.3	-38.6			80° 2.	2.965			1.000003	
135000.0	9.1	- 18.6			13.5	596.7			1.000003	
1055 00.0	9.6	-18.0			13.2	596.7			1.000003	
10.60.00.0	8.7	-78.0			12.9	596.7			1.000003	
1665 0.0		-38.5			12.6				1.000003	
107000	8. 8.	-38.5			12.4				1.000003	
197503.0	8.1	-38.5			12.1				1.000003	
100000	ა. გ.	-38.5			11.8	596.7			1.000003	
1055 00.0	2.8	-18.5			11.6				1,00001	
109000.0	7.6	-18.5			11.3	596.3			1,000003	
1095 0.0	7.5	-38.5			11.1				1.000002	

STATION ALTITUDE 3949. DEFET MSL 10 APH. R. 360P HKS MST ASCENSION NO. 202

MANDATORY LEVELS 1010020207 WHITE SANDS TABLE 6

GEODETIC CUORDINATES 32-40043 LAT DEG 106-37033 LON NEG

PRESSUGE G	GEOPUTENTI AL	TEMI	3.5	REL.HUM.	9	ATA
MILLIBARS	FEET	DEGREES	CENTIGRA		DE GREES (TW)	_
0.75	4.936.	7.5	-13.4	21.	350.1	3.5
837.0	~	5.0	-15.6		59	•
Š	• • • • • • • • • • • • • • • • • • • •	2.4	-18.6	19.	27.	2
20.1.0	10004	c.	-22-1	17.	•	
650.0	11951.	1.6	-21.4	16.	,	00
6.00	_	-1.1	-21.2	20.		•
\$50.0		7.4-	-24.1	20.	;	0
0.00≯	16757.	-10.8	-28.8	21.		. ~
450.0	21 * 75.	-17.1	-34.1	21.	90	3
0.004	24.32.	- 24.6	1.0.1		•0	•
150°0	27.168.	8	•	25.		•
40J.0	13455.	-42.6				58.7
25.7.0	74814.	-51.8			•	-
200.0	194,00.	-62.6			~	~
175.0	42113.	-65.8				~
157.0	45207.	-64.5			Œ	•
125.0	48937.	-64.2			'n	•
101.0	53345.	-61.6			~	80
87.0	57854.	-64.1			~	15.9
70.0	40552.	-63.4			236.3	2.1
60.09	<b>53686</b>	-58.8			œ.	5.8
80.08	47.69.	- 56.7			-	6.6
0.04	72128.	- 54.2			0	8.0
30.0	7672ª.	- 50.9			\$	11.3
25.0	A2135.	7.67-			۲.	17.5
0•∵2	968	9.27-			•	10.7
1 < 0	03239.	-43.9			90.5	18.7
0.01	227	- 38 • 5				14.1

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

3909.00 FEET "SL	HKS MST	
39 69 .00	US 60	203
ALTITUDE	IC APR. S.	N NO. 2
STATION	TC APR.	DSCFNSIO

# SIGNIFICANT LEVEL DATA 1710023233 WHITE SANDS

TABLE 7

GEODETIC CUORDINATES 32.4U343 LAT DEG 106.37033 LON DEG

PPESSURE	GLOMETRIC	TEPPERATURE	REL
	ALT ITUDE	AIR DFWPOINT	PER
WILLIBARS	MSL FEET	DEGREFS CENTIGRADE	

\$2.5 FEET DEGREES CENTIGRADE	PESSURE	GEOMETRIC ALTITUDE	7E * P		REL.HUM PFDCFNI
8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	4 1 1		A 1 A F F F F F F F F F F F F F F F F F	FATTORS	F 3 / E 3
8.7 4629.5 13.0 15.6 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10			, , ,		
10.1 4229.5 10.1 4229.5 10.1 4229.5 10.1 4029.5 11.1 4029.5 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.2 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.2 11.3 4028.3 11.3 4	<b>œ</b>	.08%	Š	0.	×
0.7	-	229.	ň	5.	•
5.5       A362.4       6.3         6.1       80.55.2       2.9         10.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.9         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       10.0       2.0         11.0       2.0       2.0	0	902.	<b>-</b>		ċ
0.0 10003.2 2.9 17.2	š	362	•	14.	<b>-</b> :
0.0 100093.2		055.	•	17.	_
7.7 19327.0 3.6 13171.2 3.6 17171.2 3.6 17171.2 3.7 13171.2 3.8 17551.2 3.1 17551.2 3.1 17551.2 3.1 17551.2 3.1 17551.2 3.1 17551.2 3.1 17551.3 3.1 17	ċ	. 260ú	G.		
3.3 13171.2 2.4 3.6 3.4 3.13171.2 2.4 3.8 3.8 3.8 3.8 3.8 4.7 4.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3	ċ	2 32 7	3.6	14.	Š
8.6 15132.7	3.	3171.	۲.7	15.	•
7.3 17541.2 9.7 15699.3 6.1 15699.3 6.1 2047.4 6.1 21521.1 1.15.1		5132.	-1.4	46	4
0.0 15899.3		7541.	•	24.	2
9.7       26477.4         4.1       21521.1         8.0       23964.0         8.0       23964.0         8.0       23964.0         8.0       2471.2         8.0       2471.2         8.0       2471.2         8.0       2471.2         8.0       2471.2         8.0       2472.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2475.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3         8.0       2575.3	Č,	\$299.	•	27.	~
\$\text{8.0} \text{2.3} \text{2.3} \\ \text{8.0} \text{2.3} \\ \text{8.0} \text{2.3} \\ \text{2.6} \text{2.3} \\ \text{2.6} \text{2.3} \\ \text{2.6} \\ \text{2.172.3} \\ \text{2.6} \\ \text{2.122.6} \\ \text{2.1222.6} \\ \text{2.1222.6} \\ \text{2.1222.6} \\ \text{2.1222.6}		.2170	12.	31.	>
8.0 23944.0 122.8 136.2 26.0 24471.2 136.2 26.0 24471.2 138.9 149.0 24471.2 138.9 149.0 24471.2 138.9 149.0 24471.2 138.9 149.0 24471.2 138.9 149.0 24471.2 138.9 149.0 2447.2 149.0 149.0 2447.2 149.0 149.0 2447.2 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.0 149.	,	1321.	15.	7	2
2.6 3.142.2	80	3966.	22.	9	80
2.6 37172.3	Ö	4421.	23.	36.	œ
00.0	2	1172.	38	60	-
00-0 0-10-0	ċ	1306	.04		
0.0	ċ	5097	50.		
0.0 89759.8 3.8 63883.9 3.8 63883.9 3.1 65	•	9145.	61.		
2.8	0	.6526	51.		
2.8	<b>:</b>	2631.	67.		
3.8 45036.5 1668.8 1668	2.	3591.	99		
5.5 45543.9 5.5 45159.0 5.1 45254.9 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	<b>M</b> ,	5036.	62.		
3.5 4 60189 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ò	5543.	63.		
13.3 14.3 14.3 14.3 14.4	۶.	5159.	54.		
6.9 5.9 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7 6.6 6.9 7	*	. 7564	. 99		
00.0 00.0	<b>.</b>	0.61.	61.		
7.7 59776.5 7.7 56277.9 7.8 57827.9 7.6 57827.9 7.6 57827.9 7.1 5782.4 7.1 57775.7 7.2 67776.5 7.3 67776.5 7.4 67776.5 7.7 67776.5 7.8 67776.5 7.9 67	\$	. 4 L 7 E	4 9		
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	•	3756.	. 79		
00.00		4227.	62		
3.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6	÷	5390.	64.		
7.66 57 4 6 6 7 7 6 6 7 7 6 6 7 7 6 6 7 7 6 6 7 7 6 6 7 7 6 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7	en:	4 2 5 4 ·	62.		
66-1 500 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		7 30 2.	62.		
7.8 61706.5 1588 5.4 61706.5 1588 5.4 61706.5 1588 1.9 64174.5 1588	2.	7765	59.		
7.8 61706.5 158.55.4 62.40.55.4 61706.5 158.75.4 159.75.4 159.75.4 159.75.4 159.75.5	9	9.77.	56.		
7.8 61736.5 -58. 5.4 61376.4 -59. 7.1 64174.5 -61.	;	* 05 Ú*	62.		
5.8 67376.4 -59. 7.1 64124.5 -61. 1.9 67.43.6 -55.	۲.	1706.	αυ (V)		
1.9 67.43.6 -55.	2	326.	59.		
1.9 67.43.6 -55.	ċ	4174.	۴.		
	-	4.3.	5		

3989 NO FEET MSL	7 Oc.
STATION ALTITUDE	ASCENSION VO.

SIGNIFICANT LEVEL DATA
1010U-0203
WHITE SANDS

GEODETIC COORDINATES 32.40043 LAT DEG 106.17033 LON DEG

## TABLE 7 Cont'd

REL.HUM. PERCENT TE " PFRATURE PPESSURE GEOMETRIC

20000		
	ALT 1T UDE	AIR DEMPOINT
"ILLIBAR	s well feet	DEGREES CENTIGRAD
50.0	63028.6	-55.9
6	4.52.0	-56.9
46.1	7.107.00	-53.7
43.0	71213.6	-51.2
42.4	71560.3	-51.6
31.4	77951.7	-52.1
0.05	78930.9	-51.5
54.0	63782.9	-46.5
21.5	86171.2	-45.8

· 🏞 :

-10.9 15.0 1058.9 662.4 30.0 5.0 1000244 -10.9 15.0 1058.9 662.2 29.7 7.9 1.000244 -10.6 15.2 1058.9 662.2 29.7 7.9 1.000244 -10.6 15.2 1058.9 662.2 29.7 7.9 1.000244 -10.6 15.2 1058.9 662.2 12.6 7.3 1.000244 -10.6 15.2 1058.9 662.2 12.6 7.3 1.000244 -10.6 10.0 1058.9 662.2 12.6 7.3 1.000244 -10.6 10.0 1058.9 662.2 12.6 7.3 1.000244 -10.6 10.0 1058.9 136.7 7.3 1.000244 -10.6 10.0 1058.9 136.7 7.3 1.000244 -10.6 10.0 1058.9 136.7 7.3 1.000244 -10.6 10.0 1058.9 136.7 7.0 1.000244 -10.6 10.0 1058.9 136.7 7.0 1.000244 -10.6 10.0 1058.9 136.7 7.0 1.000244 -10.6 10.0 1058.9 136.7 7.0 1.000244 -10.6 10.0 10.0 10.0 10.0 10.0 10.0 10.0	ال الم ال	9.00 FEET 950 MAS M	3 + 2		UPPER ATR 1 10100202. WHITE SAN TABLE 8	4 4 5 4 5 6 7 7 8		GEODETI 32. 106.	C COONDINATES 40043 LAT DEG 37733 LON DEG
10.00   1.00	RE TEMPERA Alo Dr	4 L 2	UNE PUTNT	EL.HUM FRCENT	DENSITY GM/CUBIC METER	PEED O	WIND DEFECTION	SPEE	INDEXOF
15.2   1058.9   662.2   20.7   7.0   100024     2.4.4   1025.0   658.5   12.5   7.2   100024     2.4.4   1025.0   658.5   137.7   7.2   100024     3.4.4   1025.0   658.5   137.7   8.0   100024     3.4.4   1025.0   658.2   137.7   100024     3.4.4   1025.0   658.2   137.7   100024     3.4.4   1025.0   658.2   137.7   100024     3.4.4   1025.0   648.2   137.7   100024     3.4.4   1025.0   648.2   137.7   100024     3.4.4   1025.0   648.2   137.7   100014     3.4.4   1025.0   648.2   137.7   100014     3.4.7   1025.0   648.2   137.7   100014     3.4.7   1025.0   648.2   137.7   100014     3.4.7   1025.0   648.2   137.7   100014     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.7   1025.0   648.2   137.7   120017     3.4.8   1025.0   137.7   120017     3.4.8   1025.0   137.7   120017     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1025.0   137.7   137.7     3.4.8   1225.0   137.7   137.7     3.4.8   1225.0   137.7   137.7     3.4.8   1225.0   137.7   137.7     3.4.8   1225.0   137.7   137.7     3.	15.2		0 6 7	٠,	1058.	667	0.01	æ	1.000.1
10.4	15.5	'	-	3	95A.	62.			, 5000.
2.4.1         103.2         656.8         357.7         8.0         1,000.2           2.4.4         1025.0         656.9         337.7         8.0         1,000.2           2.4.6         1012.3         656.9         337.7         8.0         1,000.2           2.1.0         964.1         651.2         310.7         8.2         1,000.2           3.1.0         964.1         651.2         310.7         8.5         1,000.2           3.1.0         964.2         664.0         335.7         8.5         1,000.2           4.1.3         95.8         666.7         335.7         8.5         1,000.2           5.1.0         966.7         350.7         350.0         8.5         1,000.2           5.1.0         966.7         350.7         350.0         8.5         1,000.2           5.1.0         966.0         335.7         7.8         1,000.2         1,000.2           5.1         966.0         350.0         350.0         350.0         1,000.2         1,000.2           5.1         966.0         350.0         350.0         350.0         350.0         1,000.2         1,000.2         1,000.2         1,000.2         1,000.2         1,000.2	12.5	•	÷,	÷	051.	58.	12.	•	<b>7200C</b>
5 Co.6         100.5.0         655.9         337.3         8.0         100.00.2           5 Co.8         100.5         100.5         100.5         100.5         100.5           5 Co.8         100.0         100.5         100.5         100.5         100.5           1 Co.6         66.7         330.7         8.5         100.0         100.5           1 Co.6         66.8         335.7         8.5         100.0         100.5           1 Co.6         66.8         335.7         8.5         100.0         100.5           1 Co.6         66.0         335.7         8.5         100.0         100.5           1 Co.6         66.0         335.7         8.5         100.0         100.0         100.0           1 Co.6         66.0         320.0         50.8         100.0	\$ .C.	i	•	;	037.	56.	54.	•	.00024
5.2.6         1912.3         653.0         326.3         100023           5.1.0         969.1         651.2         319.5         1000023           5.1.0         966.1         337.2         8.5         1000023           11.2         966.2         666.7         337.2         8.5         1000020           11.2         966.2         337.2         8.5         1000020           11.2         966.2         335.2         8.5         1000020           11.2         966.2         335.2         8.5         1000020           11.2         966.2         335.2         8.5         1000020           11.2         966.2         336.2         8.5         1000020           11.2         966.2         336.2         8.5         1000019           11.2         97.2         666.0         320.2         100019           11.2         96.2         96.2         320.2         100019           11.2         96.2         96.2         320.2         100019           11.2         96.2         96.2         320.2         100019           11.2         96.2         96.2         320.2         100019           11	9.1	7		;	25.	54.	37.	•	* 000°
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1.0002   0	5.)	_	•	<b>.</b>	. 70	0	30.	•	.0000
1.0	) · ·	•	•	<b>.</b> .	9	6.8	å.	•	-00022
10.4*** 945.8 646.7 335.2 8.5 1.00020  1.3*** 946.8 644.8 335.2 8.5 1.00020  1.0*** 876.6 644.8 321.7 7.8 1.00019  1.0*** 876.6 644.8 321.7 7.8 1.00019  2.5*** 876.6 644.8 321.4 66.8 1.00019  2.5*** 876.9 647.2 321.4 66.8 1.00019  2.5*** 876.9 647.2 321.4 66.8 1.00019  2.5*** 876.9 647.2 322.5 38.8 1.00019  2.5*** 77.8 642.8 316.7 37.9 1.00019  2.5*** 77.8 642.8 316.7 37.9 1.00019  2.5*** 77.8 642.8 316.7 37.9 1.00019  2.5*** 77.8 642.8 316.7 37.9 1.00019  2.5*** 876.9 637.9 317.9 45.0 1.00019  2.5*** 642.8 317.9 45.0 1.00019  2.5*** 642.8 317.9 45.0 1.00019  2.5*** 642.8 317.9 45.0 1.00019  2.5*** 642.8 317.9 32.9 1.00019  2.5*** 642.8 316.7 32.6 1.00019  2.5*** 642.9 316.7 32.6 1.00019  2.5*** 642.9 316.7 32.6 1.00019  2.5*** 642.9 316.7 32.6 1.00019	) • S	-	•		, , ,	* 7.	•	٠	.000.
1.55	¿- \$•\$	r. i	٠	• • •	30	46	37.	•	.00021
10.000   10.0000   10.0000   10.0000   10.0000   10.0000   10.00		,	•	* ·	77	. 5	35.	•	.00021
10.2   10.00	0.0		•	- 6	· .	44.	35.	•	. 2000°
11,7**   857.0   646.0   320.0   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   1.00019   50.5   50.8   50.8   1.00019   50.5   50.8	), i	?;	•	• ·	• • •	, ,	34.	٠,	3 7000°
10.2**   812.0   520		٠,		* 0 * 0	٠,	•		•	V 1000.
25.7		* 5	<u>,</u> -	֓֞֞֜֞֜֜֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֜֓֡֓֡֓֡֓֡֓֡֓֡֓֡֓֡֡֡֓֡֓֡֓֡֡֜֜֡֓֡֡֡֡֓֡֡֡֡֡֡		•	• • • •	•	2.000
25.4	41 - 0.5 71 - 5.8	~ ~	- 4	7.0	, 0		- L 7	• •	
25.9       792.4       644.0       322.5       38.8       1.00018         25.2       767.8       644.9       319.3       38.2       1.00017         24.6       767.8       645.8       315.7       1.00017         24.1       755.9       643.8       315.7       37.4       1.00017         24.1       721.7       640.3       316.7       37.5       1.00017         24.2       710.7       639.0       317.0       40.8       1.00017         24.2       710.7       639.0       317.0       40.8       1.00017         25.0       678.7       317.0       40.8       1.00017         25.0       678.7       317.4       40.8       1.00017         26.0       658.5       635.1       317.4       45.6       1.00017         26.0       658.5       635.1       317.3       39.9       1.00017         26.0       658.5       635.1       317.3       36.1       1.00017         26.0       658.5       635.1       317.3       36.9       1.00017         26.0       658.5       635.1       317.4       40.8       1.00017         26.0       658.5       635.2<	3.0	-	· 5	· .	, . S	47.	24.	· •	.0001 P
0         35.7         770.9         646.0         320.0         38.8         1.00017           0         76.8         644.9         319.3         38.2         1.00017           0         74.2         642.8         317.0         37.7         1.00017           1         75.7         640.3         316.7         37.5         1.00017           2         72.7         640.3         316.7         37.5         1.00017           2         72.9         710.7         640.3         317.0         40.8         1.00017           5         72.0         678.9         635.1         317.0         45.6         1.00017           5         72.0         678.7         317.5         45.6         1.00017           5         72.0         658.5         35.1         317.5         45.6         1.00017           5         7.0         658.5         35.1         317.3         39.9         1.00017           5         7.0         658.5         635.4         317.3         36.9         1.00017           5         7.0         658.5         635.4         317.3         36.9         1.00017           5         7.0	2.3 -15	15		\$	9.5	47.	22.	<b>®</b>	.0001
75.2       767.8       644.9       319.3       38.2       1.00017         74.2       642.8       317.0       37.7       1.00017         1       75.7       640.8       316.7       37.5       1.00017         2       73.3       721.7       640.3       316.7       37.9       1.00017         2       700.3       317.0       40.8       1.00017         4       722.0       678.9       635.1       317.0       45.6       1.00017         5       72.0       668.7       635.1       317.9       45.6       1.00017         5       72.0       668.7       635.1       317.9       45.6       1.00017         5       72.0       668.7       635.1       317.3       39.9       1.00017         5       72.0       668.7       635.1       317.3       39.9       1.00017         5       7.0       648.1       631.3       317.3       36.1       1.00017         5       7.0       658.5       652.9       317.3       36.6       1.00014         6       6       6       6       1.00014       1.00014         7       6       7       6 <td>- ··</td> <td>-16</td> <td>0</td> <td>\$</td> <td>70.</td> <td>46.</td> <td>20.</td> <td>•</td> <td>.00012</td>	- ··	-16	0	\$	70.	46.	20.	•	.00012
7.6.6       755.9       643.8       317.9       37.7       1.00017         1       75.7       640.8       316.7       37.5       1.00017         2       73.3       710.7       640.3       316.7       37.5       1.00017         3       72.0       678.9       639.0       317.0       40.8       1.00014         4       72.0       678.9       635.1       317.0       45.6       1.00014         5       72.0       668.7       635.1       317.4       45.6       1.00014         5       72.0       668.7       635.1       317.4       45.6       1.00014         5       72.0       668.7       635.1       317.3       39.9       1.00014         5       7.0       658.5       632.4       317.3       39.9       1.00014         5       7.0       658.5       632.4       317.3       36.4       1.00014         6       648.1       631.1       317.3       36.9       1.00014         7       627.9       628.6       310.8       36.4       1.00014         8       7.0       628.5       322.4       40.0       1.00014         8	0	-17	دِ	۶.	67	44.	19.	• •	.0001.
7.44.2       642.8       316.7       37.5       1.00017         7.32.8       641.6       316.7       37.5       1.00017         2.2.9       710.7       639.0       316.4       39.2       1.00016         4.2.4       700.0       68.7       317.0       40.8       1.00016         5.2.0       658.2       317.0       45.6       1.00016         5.2.0       668.7       633.7       317.3       39.9       1.00016         5.2.0       668.7       633.7       317.3       39.9       1.00016         5.2.0       668.1       631.1       317.3       39.9       1.00016         5.2.0       668.1       631.1       317.3       39.9       1.00016         5.2.0       668.1       631.1       317.3       39.9       1.00016         5.2.0       668.1       631.1       317.3       36.1       1.00016         5.2.0       668.1       631.1       317.3       36.9       1.00016         6.27.9       628.6       310.8       36.1       1.00014         6.27.5       609.7       320.7       38.4       1.00014         6.2.3       609.4       627.0       320.4	~•·	1) (	<b>.</b>	;		43.	7.	• •	.00017
25.3       721.7       640.3       316.7       57.9       100014         35.2       710.7       640.3       316.4       37.9       100014         4       22.4       700.3       317.0       40.8       1.00014         5       1.20       658.5       317.0       45.6       1.00014         5       2.0       658.5       635.1       317.4       42.0       1.00014         5       2.0       668.7       635.1       317.4       42.0       1.00014         5       2.0       668.7       635.4       317.3       39.9       1.00014         5       1.0       658.5       637.9       629.9       316.4       36.1       1.00014         5       1.9       648.1       631.1       317.3       36.1       1.00014         5       1.9       627.9       310.8       36.1       1.00014         5       1.0       627.9       320.7       38.4       1.00014         5       2.4       60.0       40.0       1.00014         5       2.5       592.0       621.7       322.4       40.0       1.00014         5       2.5       592.0       621	۲۰۲۰		. د	;	, ,	2,	9	٠,	.00017
3       2.2       710.7       639.0       316.4       39.2       1.00016         5       2.4       700.0       657.7       317.0       40.8       1.00016         5       2.4       700.0       658.9       635.1       317.9       45.6       1.00016         5       2.0       658.9       635.1       317.9       45.6       1.00016         5       2.0       658.5       632.4       317.3       39.9       1.00016         6       6.2       658.5       317.3       39.9       1.00016         7       2.0       658.5       31.7       36.1       1.00016         8       2.0       627.9       310.8       36.9       1.00016         8       2.0       627.0       320.7       38.4       1.00014         8       2.0       627.0       321.5       39.6       1.00017         8       2.0       627.0       321.5       39.6       1.00017         8       2.0       627.0       322.4       40.6       1.00017         8       2.0       627.0       322.2       40.6       1.00017	2	٠, ٤٠	- ^	; -		• •	٠ ٢	• •	41000°
4         22.4         700.0         689.4         676.7         317.0         40.8         1.00015           5         22.0         678.9         635.1         317.9         45.6         1.00015           5         72.0         668.7         633.7         317.4         42.9         1.00015           5         7.5         668.5         632.4         317.3         39.9         1.00016           6         648.1         631.1         317.4         36.1         1.00016           7         14.9         648.1         31.7         36.1         1.00016           8         14.1         310.4         36.1         1.00016           8         14.1         310.4         36.9         1.00016           8         14.1         32.0         32.0         38.4         1.00016           8         14.2         627.0         628.5         321.5         39.6         1.00017           8         14.3         321.5         39.6         1.00017           8         14.3         40.6         1.00017           8         14.3         40.6         1.00017           8         14.0         1.00017	7:- 6.4-	۲,		,	10	30			. CO01 A
5       2.0       689.4       676.5       717.7       43.1       1,00015         5       22.0       678.9       635.1       317.9       45.6       1,00015         5       7.0       668.7       637.4       317.3       39.9       1,00016         9       29       648.1       631.1       317.3       36.1       1,00016         2       19.9       627.9       629.9       318.4       36.1       1,00016         5       19.1       627.9       628.6       310.8       36.9       1,00016         5       10.1       627.9       628.6       310.8       36.9       1,00016         8       10.1       627.9       628.6       320.7       38.6       1,00016         8       10.1       627.0       627.0       321.5       39.6       1,00017         8       10.1       627.0       627.0       321.5       39.6       1,00017         9       10.0       10.0       1,00017       40.6       1,00017         10.0       10.0       1,00017       40.6       1,00017         10.0       10.0       1,00017       1,00017         10.0       1,00	¿ - 5.4 >;	٠,		,	00	17.	17.	0	.0001
5       22.0       678.9       635.1       317.4       45.6       1.00015         5       7.0       668.7       637.4       317.3       39.9       1.00016         9       29       648.1       631.1       317.3       36.1       1.00016         2       19.9       648.1       317.3       36.1       1.00016         2       19.9       627.9       629.9       318.4       36.1       1.00016         5       19.1       627.9       628.6       310.8       36.9       1.00016         8       1       627.0       627.0       320.7       38.6       1.00016         8       1       609.6       627.0       320.7       38.6       1.00016         8       1       609.6       627.0       321.5       39.6       1.00017         9       1       1.00017       52.2       40.6       1.00017         5       25.2       563.4       619.9       322.8       41.0       1.00017	7 4.9-	,		• ;	89	46.	17.	≥.	.0001
5       7.5.0       668.7       637.4       42.9       1.0001         5       21.6       658.5       632.4       317.3       39.9       1.0001         9       29       648.1       317.8       36.1       1.0001         2       19.9       627.9       629.9       318.4       36.9       1.0001         5       19.1       627.9       628.6       310.8       36.9       1.0001         5       21.5       617.6       627.0       320.7       38.4       1.0001         8       2       609.6       627.0       320.7       38.4       1.0001         7       24.3       609.6       627.0       321.5       39.6       1.0001         5       55.2       592.0       621.7       322.4       40.0       1.0001         5       55.2       563.6       619.9       322.8       41.0       1.0001	25- 2.5	r.		ů	28.	35.	17.	٥.	.0001
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9 29 648.1 631.1 317.8 36.1 1.00014 2 19.9 627.9 628.6 310.8 36.9 1.00014 5 21.5 617.6 627.0 320.7 38.4 1.00014 8 73 600.4 625.3 321.5 39.6 1.00013 7 24.3 600.7 623.5 722.4 40.0 1.00013 5 25.2 597.0 621.7 323.2 40.4 1.00013 4 76.2 563.4 619.9 322.8 41.9 1.00013	2,- 0.6-	۲,	Š	÷	58.	32.	17.	•	.0000.
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STATION ALTITUDE 3059.00 FEET PSL 10 AP ... ASCENSIC

UPPER AIR DATA

SCHOOLS ARRESTANCE SCHOOLS

GEODETIC COORDINATES

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olem No. 20.5	. 203				TABLE 8	TABLE 8 Cont'd		106.	1U6.37333 LON DEG	
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اء 19		4 <b>T</b> 6	DIMPOINT	PERCENT	GM/CUBIC	SOUND	DIRECTION SPEED	SPEED	0.6	
Tw 121	LLIHARS	DEGREES	LET MILLIHARS DEGREES CENTIGRADE		METER	KNOTS		KNOTS	REFRACTION	

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REWSITY S GM/CUBIC METER	875.0		4.7.	39.	30.	22.	<u>~</u>	S.O	97.	90.	δ.,	74.	6,	٠ ن	51.	43.	55,	53.	c.	<u>_</u>	90	66	•	85.	79.	72.	· •	59.	5.5	46.	c.	33.	2 k.	13.	<u>.</u>	.)	٠,	.76	ه (ن
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\*\* \*I LESST O'E ASSUMED PELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

TABLE   COUNTY   1927   145   147   148	TATION	20	FEET	_	PFR A18			-	C COOKDINATE
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CTATION ALTITU 10 APR. 84 ASCENSION NO.	203	29.70 FEET MS	ET MSL MST	•	TOTAL SANDS TABLE 8 Cont'd	Cont'd		GEODE TJ 32. 106.	GEODETJC COORDINATES 32.4u343 LAT DEG 106.37 <sup>n</sup> 33 Lun Deg
SEOMETRIC ALTITUDE MSL FLFT M	PRESSURE MILLIEARS	TeMF AI? Degrees	PRESSURE TEMPERATURF AI? DEWPOINT MILLIBARS DEGREES CENTIGRADE	REL.HUM. Percent	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND METER KNOTS	SPEED OF Sound Knots	WIND DATA DIRECTION SI DEGREES(TN) KR	SPEED KNOTS	INDEX OF REFRACTION
	23.5 23.5 22.7 22.7 24.7	111111 44666 66666 66666 66666 66666 66666			WWWWWW V X A 4 4 4 A W V K C W	37.4 586.2 37.7 586.6 37.7 586.8 34.8 587.0 34.0 587.2	77.9		1.00000% 1.00000% 1.00000% 1.00000%

STATION ALTITUDE 5999,00 FEET MSL 1J AFN. 84 0950 HKS MST ASCENSION NO. 203

VANDATONY LEVELS
1010020203
WHITE SANDS

GEODETIC COORDINATES 32-4004% LAT DEG 106-37033 LON DEG

TABLE 9

EES CENTIGRADE DEGREES (TN) KNOT CO. 357.7 7.2 7.2 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	PRESSURE LA	LF UPUT CNTIAL	4	TEMPERATURE	REL. HUM.	ONIN	ATA
4999, 11.1 -11.0 20, 357.7 21, 656.1 5.9 -14.7 21, 820.3 56.4 2.6 -18.8 19.0 339.2 320.3 120.4 3.6 -14.6 25, 323.6 120.4 3.6 -4.2 -27.7 22, 318.7 120.4 120.2 120.3 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.2 120.4 120.		ų. E	15	ENTIG		EGREESCIN	KNOT
6564. 5.9 -14.7 21. 320.3 6267. 2.6 -18.8 19.** 339.2 12043014.6 25. 323.4 14.1623.6 -17.4 25. 318.7 14.1623.6 -17.4 25. 318.7 14.1623.7 -22.7 22. 318.7 14.1623.8 -27.7 22. 317.4 21.51415.8 -34.8 28. 321.8 27.51415.8 -34.8 28. 321.8 27.51415.9 -34.8 28. 321.8 27.51461.0 27.51461.0 27.51461.0 27.51562.1 27.51562.1 27.51662.1 27.517	Š	O	11.1	11	20.	357.7	7.2
8267.       2.6       -18.8       19.**       339.2         12647.       .0       -14.6       25.       328.5         14162.       .7       -17.6       25.       318.7         14162.       .7       -22.2       23.       318.7         14162.       .7       -22.2       23.       316.6         14462.       -4.2       -27.7       22.       317.6         16437.       -27.7       22.       317.6         21514.       -15.8       -31.9       23.       321.8         2451.       -27.7       20.       320.4         2751.       -50.7       -41.7       30.       320.4         25.4       -66.8       -41.7       30.       320.4         4542.       -66.8       -65.3       267.1         4542.       -66.8       -66.8       267.1         4542.       -66.8       -66.8       267.1         4542.       -66.8       -66.8       374.0         4542.       -66.8       -66.8       457.0         4542.       -66.8       -66.8       457.0         4576.       -56.0       459.0       469.0         4	0	0541.	5.9	-14.7	21.	\$20.3	
12044.	~	8 267.	9.2	-18.8	19.**	339.2	8.5
12047. 3.6 -14.6 25. 323.4 1416217.4 25. 318.7 14416217.4 25. 318.7 1441624.2 -22.2 23. 316.4 188779.6 -27.7 22. 317.4 2151415.8 -31.9 23. 321.8 248123.5 -34.8 28. 321.8 2743151.9 -43.7 30. 320.4 4234560.7 -43.7 30. 320.3 4242266.8 26.1 4242266.8 26.1 4242266.9 47.7 424262.2 426460.0 4277455.9 8251847.3	$\circ$	Ö	C:			328.5	12.1
14162.        -17.6       25.       318.7         16432.       -4.2       -22.2       23.       316.4         16877.       -9.6       -27.7       22.       317.4         71514.       -15.8       -31.9       23.       321.6         7481.       -27.7       28.       321.6         7481.       -27.7       28.       321.8         7481.       -51.7       40.       321.8         750.7       -40.7       40.       320.4         750.7       -60.7       -41.7       40.         750.7       -60.8       -60.9       724.0         750.7       -50.5       724.0         750.7       -50.5       724.0         750.7       -50.5       724.0         724.7       -50.0       724.0         724.7       -50.0       724.0         724.7       -50.0       724.0         724.7       -50.0       724.0         724.7       -50.0       724.0         724.7       -51.0       724.0         724.7       -51.0       724.0         724.7       -51.0       724.0         724.0	1	$\sim$	3.6	,	<b>~</b>	323.4	45.4
164374.2 -22.2 23. 316.4 188779.6 -27.7 22. 317.4 2151415.8 -31.9 23. 321.8 24.8123.5 -34.8 28. 321.8 27.5151.9 -43.7 30. 310.8 17.6466.8 -66.8 320.7 49.6466.8 -66.8 297.2 49.6862.2 49.6862.2 49.6862.4 53.9264.1 5810759.5 60.94.262.4 53.9260.0 53.9260.0 53.9260.0 53.9362.4 53.9364.1 5810755.9 58.6 58.6 58.6 68.6 68.6 68.6 68.6 68.7 68.7 68.7 6	607.0	14162.	۲,	-17.4	\$	318.7	38.0
1887** -9.6 -27.7 22. 317.6 7478115.8 -31.9 23. 321.8 7478127.5 -36.8 28. 321.8 7755151.0 -47.7 20. 310.8 7103660.7 -47.7 20. 310.8 7103660.8 20.7 725266.8 20.7 725266.1 5810750.5 7870.1 5810750.0 7257651.7 8251847.3	657.0	16437.	-4.2	-22.3	23.	316.4	19.0
7151415.8 -31.9 23. 321.8 7478121.9 -34.8 28. 321.8 7775151.9 -43.7 10. 319.8 7103660.7 -43.7 10. 320.4 720250.7 -43.7 10. 320.4 720260.8 -60.8 297.2 7208862.2 297.2 7208862.2 287.0 7208862.2 287.0 7208862.1 287.0 7208862.1 287.0 7208860.9 169.7 7208860.9 169.7 7208860.9 169.7 7208860.9 169.7 7208860.9 169.7 7208860.9 169.7	503.0	1887.	9.6-	-27.	2	317.4	9.0,
7478123.5 -34.8 28. 321.8 275.1.0 -51.0 -43.7 70. 319.8 110.3660.7 -40.7 320.4 4234560.8 454.2 490.8862.2 490.8864.1 5810759.5 6084262.4 7247651.0 8251847.3	45 n • 0	21514.	-15.R	-31.0	23.	321.6	19.7
2775151.0 -41.7 10. 319.8 110.56 110.56 110.56 -40.7 320.4 320.4 320.7 320.	6.07.0	74.81.	- 23.5	-34. A	28.	321.8	9.47
11036, -40.7 150.7 19664, -61.6 12355, -65.8 163.3 163.3 163.3 163.3 163.3 164.4 16	150.0	27551.	° + 1: -	-43.7	•0 •	310.8	41.1
750,750.7 750,750.7 714,6.6 4234566.8 4542263.3 4908862.2 584.6 5810759.5 6084260.0 63.9960.0 64.9960.0 65.9060.0 68.6060.0	\$00.0	11036.	-40.7			\$20.4	47.1
4234566.8 414.4 4234566.8 290.1 4542263.3 297.2 490.8 -62.2 284.4 5423 5810756.1 5810752.6 59.5 158.0 158	257.0	*5067	- 50.7			320.3	52.5
4234566.8 290.1 4542263.3 297.2 4908862.2 284.4 5359264.1 267.1 5810759.5 74.0 6094262.4 123.0 7247655.9 123.0 7247651.7 887.1	20.0.0	. 79465	-61.6			7.11.	7.07
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4908866.1 5810759.5 6084262.4 6339960.0 7247655.9 7247651.7 787651.7 887.7	157.9	45422.	-63.3			2.7.65	1001
\$359264.1 267.1 5810759.5 674.0 6044262.4 169.0 123.0 123.0 123.0 123.0 123.0 123.0 123.0 124.0 125	125.0	. * 8 O 6 7	-62.2			284.4	28.7
\$810759.5 \$094262.4 \$379960.0 \$777455.9 7247651.7 7879451.0 88.6 88.1	10.0	43692	1.49-			267.1	24.5
6094262.4 6379960.0 777455.9 7247651.7 7879451.7 888.6 888.7	ر چ 5 م	<81U7.	- 59.5			274.0	13.5
43799.       -60.0         47774.       -55.9         72476.       -51.7         7876.       -51.7         82518.       -47.3	0° ú.2	£0942.	-62.4			169.0	3.8
47774.     -55.9     180.3       72476.     -51.7     51.6       78794.     -51.0     88.6       82518.     -47.3     83.7	0.0	*300E *	- 60.0			123.0	8.3
7247651.7 7879451.0 8251847.3	0° L S	. 27774.	- 55.9			160.3	4.1
7879451.0 BR.6 8251447.3 BX.1	0. 4	72476.	-51.7			5.4.6	9.5
8251847.3	30.0	. 75.86	-51.0			8. A. C.	15.4
	0.55	82518.	- 47 . 3			84.7	•

AT LEAST ONE ASSUMED RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

FEET WSL	\$	
	1000 MRS	9
ALTITUEE	70	NO. NO.
T A T 1 0 %	C APR. 04	SCINSIC

DATA	
سنا	60316
2	100

GEODETIC CUORDINATES 32.68734 LAT DEG 136.42307 LON DEG

997.73 FEET # 1000 PRS MST	.51	C 1	10060316 R	
			TABLE 10	
PRESSURF	CEONE			REL.HUM.
MILLTBARS	ST FEE	DEGREFS	ENT	
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7.77 g	4170.4	12.8	-12.4	16.0
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47.	7772.	33.	. 77	~
13.	-29Ju	39.	50.	ċ
00	1079	41.		
50.	5070.	51.		
. 70	. 1776	•		
00	9719.	63.		
75.	2347.	55.		
61.	3979.	66.		
53.	5049.	63.		
50.	.0073	54.		
•0,	6813.	99		
.97	9874.	55.		
15.	.513.	53.		
03.	1819.	63.		
00	7653.	51.		
<u>.</u>	7547.	. , 9		
Š	0316.	٠ ص		
ċ	0943.	55.		
۲.	2839.	60.		
•	4446.	÷0.		
c*	7882.	\$		
2	1159.	54.		
ċ	7305.	53.		
Ö	.5728	51.		
ċ	553	•		
	1055.	40.		
14.5	1,777.	60.		

STATION ALTITURE 3097.\*\*O FEET MSL 10 APR. P4 1007 HRS MST ASCENSION NO. 16

UPPER ATR DATA 1010060916 S M R

GEODETIC COORDINATES 32.46034 LAT DEG 136.42307 LON REG

ASCENSION	, NO. 16		- 0		TABLE 1	1		136.	42307 LON REG
E OME TP	PRESSURE	EMP	ATUR	. HU	ENSITY	•	INP DA	<b>4 b</b>	INDFX
ALT 1 T UD E		AIF	DTWPOINT		GM/CUBIC	SOUND	DIRFCTION	SPEED	90
SL FFE	WILLIBARS	DESRFES	NIIGRA		ETER	NOT	REESCT	2	REFRACTION
. 265	8 7 8	Š	M	2	0.59	62.	ċ	•	0025
000	878		, m	•	050	62.	c		200
45 CD • D	862.4	11.7	12	16.5	105 7.7	657.8	31.1	R . 2	
CO.	846.	6	~	2	039	56.	5	•	.00024
Sen.	831.	œn	14.		n25.	54.	~		.000°
000	815.	•	15.	å	011.	53.		•	₹2000.
038	8 F.O.	•	15.	نه	97.	51.	•	•	<b>332</b> ₹
ن ن ن ن	786.	•	.0	Ġ	, M	50.	908	•	.0002
5 5.71	771.	•	•	6	70.	48.	7.862		.00022
	7:7.	•	•	ů	5.Å.	47.	97.	٥.	.00022
S.C.	743.	•	6	*	30.	. 97	.06	ċ	.00021
. 600	729.	•	٠ ن	2	22.	.97	02.		.00021
s no	715.	•	ئ	Š	07.	47.	08.	<b>.</b>	0 2000°
.00 aa	702.	•	•	Š	62	50.	15.	<b>:</b>	.5006.
500.	689	•	٠,	•	61.	50.	23.	•	.1000.
10001	676.	•	•	6	<b>4</b> 5	50.	27.	,	.00019
1500	664.	•	5	ငံ	31.	50.	30.	•	.00010
.0003	651.	•	•	ċ	ď.	, 8 <b>,</b>	31.		.00019
25.00•	·629	•	2	ငံ	90	47.	32.		.0001
30.00	. 229	•	œ	ċ	93.	46.	30.	•	.0001
3500	615.	•	6	ů	8.1	65.	2.8	ċ	.0001 %
6007	603.	•	å	ċ	60,	77	25.	ċ	. n0017
<b>*</b> 203 <b>*</b>	265			6	57.	43.	25.		.00017
5 C 0 J •	581.	<b>;</b>	2	Ġ.	6.6	41.	9.		.00017
55 nD.	570.	-2.9	3	ċ	34.	40,	٠ •	٥,	.00014
0000	5:0.	'n	4.	œ	23	62	<u>x</u> .	٠,	.00014
65.50	248.	3	Š	å	7.	38.	19.	,	. 2001 A
70 00°	5.48.	Š	÷	ď.	01.	37.	40.	٠.	.0001
15 gn	528.	÷	7	œ	٠ د ن د	15.	٦×.	•	.0001
3ขึ้น	518.	7	۲.	ထံ	ເ ເ	. 4 .	17.	٠.	.0001
85 00	<b>.</b> 808	6	æ	ů	٧٠,	M M	17.	3	.0001
<b>.</b> Co Jo	.864	10.	ċ	ċ	<b>6</b> 0	31.	٠		.0001
ان در ان	<b>.</b> 88.	Ξ.	ċ	ċ	.04	, O.	<u>.</u>		.00914
י ניט	478.	12.		ò	30.	29.	21.	æ	.1000.
.503.	4634	33.	2.	ŝ	0.4	27.	23.	•	•00016
10.00	*C+7	14.	5	¢.	٠ <u>.</u>	26.	24.	Ġ.	.0001
1500	450.	ŝ	3.	ċ	۲.	24.	54.	9	.0001
ينان	441.	17.	,	÷.	5	23.	54.	•	.0001
C . S . 3	432.	18.	Š	<b>۔</b>	92.	21.	24.		00017
10 00°	474.	20.	ŝ	۲,	94.	19.	23.	۲.	₹ 100¢

TO THE TRANSPORT OF THE PROPERTY OF THE PROPER

14110V A	TITUDE 39		-		10100639	16		-	C COORDINAT
# 2	7.	8	#8.1		ac E			32.	48034 LAT DEC
	•				TABLE 11	Cont'd		כ	ייי אין רמא ני
) N O	PRESSURE	TEM	ATURE	REL. HUM.	SITY	SPEED OF	Q QNIT		INDEX
3 8	WILLIBARS	DEGREES	102	נאננא	MF TER	KNOTS	ES (	KNOTS	REFRACTION
35.00.	415.	21.	9	,	75.	17.	22.	~	001
24000-0	407.0	-23.2	-27.6	25.2	567.1	616.0	422.0	43.4	1.000128
* 6.2 S 7	398.	•	9	•	50.	14.	21.	•	100n
. coos	390	22.	49.	۲.	So.	12.	25.	2.	0001
5500.	382	27.	·.	2	61.	10.	23.	\$	001
	374.	80	<b>.</b> 13	œ	3.5	60	٧.	•	0001
65.00	366			<b>.</b>	24.	24.	25	•	201
000	0.00		,,,	<b>.</b>	ပ် (၁)	5		÷.	
	27.1	. 75		:.		•	<u>, , , , , , , , , , , , , , , , , , , </u>	•	
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.0503	307.	60	Š	7.1*	60.	. 76	8.	60	000
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15.00	294.	۲.			. 7 5	95.	20،	Ċ.	0000
32000	287.	m			36.	90.	21.	-	0000
25 ng •	291.	÷			٠ ٩	80 80	20.	۲.	0000
3001.	274.	\$			21.	87.	٠ ا	۲.	CCOO
35.0	268.	47.			14.	35.	20.	m,	.0000
. CO.: 7	262	. O		٠	50	M	6	· ·	0000
65 CT	256.	65			֡֜֝֜֜֜֜֜֜֜֜֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֜֜֜֜֓֓֓֓֓֜֜֜֜֓֓֓֓	28	6.0	ů.	0000
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65.00	273				7 2 2	75.	0		
7039.	227.	9			6 5	73.	18	•	0000
75.05	222.				59.	72.	17.	•	.0000
60.0A	217.	۸ ۳			51.	70.	17.	۶.	0000
8500.	212.	60.			47.	68.	16.	;	0000
• 60 Go	207.	•			•09	66.	15.		0000
9500.	202	62.			34.	55.	17.	ċ	0000
ָט <b>ַ</b> טְטָּ	197.	63.			27.	64.	10.	Š	0000
02.00	135.	96.			50.	53.	35.		0000
10001	187.	,			-	62.	00	•	0000
1507	183.	-45.4			07.	51.	97.	۲,	2222
. Cop.	178.	65.			ຕິ	<b>6</b> 0•	. 76	,	0000
55.00	174.	146.0			76	59.	÷	Š	0000
:000i	969	55			3.4	59.	0	•	000

TIC COORDINATES 2.43034 LAT DEG 6.42307 LON DEG	INDEX OF Refraction	1.0000	20000 • F	20000 TE	1.00005 1.00005 1.00005	1.00004	1.0004 1.00004 1.00004	1.00004	, ueeeeeee	1.0000 t 1.0000 t 1.0000 t	1.0000 1.0000 1.0000 1.0000	7 1.00007 0 1.00007 7 1.00007 1.00007 9 1.00007	
6 F 3 0 E	ATA SPEED KNOTS	vo vo	• • • •	· · · · ·	. O 4	0 m r		200	V & Q			N N N 9	
	WIND D DIRECTION DEGREES(TW)	95.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9 6 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5 9 5	4 C C C	53.	50°.	5 6 W 30	8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 N a a	98.2	1046	500-
<b>DATA</b> 16 11 Cont'd	SPEED OF Sound Knots	59.	6 6 8 6 6 6 9	60.	61.	62.	63. 53.	64. 55.	666. 656.	9999	63.		66. 67. 57.
UPPER AIR 1 101036331 5 m R TABLE 1	DENSITY GM/CUBIC METER	79.	255.55 255.55 255.55 255.55 255.55	3 4 6	15.	900	, o v	e v e v	ς να 4	- 2 - 4	P. M O V	(C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	, , , , , , , , , , , , , , , , , , ,
	RFL.HUM. Percent												
FEET "SL HRS 4ST	TEMPERATURE P DEMPOINT FES CENTIGRADE	∞2 <b>e</b> 2 ≈	^ ~ ~ <sup>0</sup>	. ~ . ~ . °	~	i N m a	<b>့ က ဆ</b>	<b>9 9.</b>		6.2.7.	00-0	0,7,9,9,	α <b>-</b> φ-
1001	A I Degr	~ ~ ~	0 40 40 40	55 65	<b>SSS</b>	25.5	S 50 C	M M N 1	V V V	5 4 4 5 6 4 6 6 4 6 6 4 6 6 6 6 6 6 6 6	4 ~ - 4	60 60 60 60 60 60 60 60 60 60 60 60 60 6	
7.1.TUDE 3 NO. 16	PPESSURE #1LLIBARS	3:		200	32° 29° 25°	200	14.	90.00		- 6 7 3	80.0	22 22 22 23 24 24 25 26 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	
STATION AL 10 AFR. F4 ASCENSION	GEOMETRIC ALTITUDE MSL FEET	2503 4000	5000 5500 6003	65 00 - 75 00	8500.	9500.	1000 1500	2900. 2900. 3900.	4000. 4500. 5000.	5557 6965 6593 7098	75 60 • 86 00 • 85 00 •	595 (P. C. C. C. C. C. C. C. C. C. C. C. C. C.	2500. 2500. 7000.

*	1002 HRS #ST	APR. 84	7
1010	3097.73 FEET "SL	STATION ALTITUDE	Γ.
UPPFR			

<b>4</b> ₩0	TITUDE 30	97.73 FE	-		191006931	15		GEODETI	COORDINATE
D APK.		9	#S±		∝ •			32.	48034 LAT D
SCENSTO	NO. 16				TABLE	11 Cont'd		106.	307 LON DE
OME TR	PRESSURF	7 5 8	FTURE	REL.HUM.	SITY	SPEED OF	2	¥ <b>+</b>	INDEX
ALTITUDE		414	DEBPOINT	PFRCEN	M/ CU	<b>&gt;</b> (	DIRECTION	۵. :	0f
	FILLIBARS	0 5 6 1	Z		METER		GREEST	5	REFRACTION
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6000	;	28			·	570.	72.		.0000.
665 00 °C	53.4	-58.1			64.5	571.3	178.0	80 ~	1.000019
7000	ç	27.			,	572.	84.	•	0000
75.00	ċ	26.			٠,	573.	<b>40</b>	•	1000
800°		29			·	573.	25.	•	10000
8509.	8	26.				574.	~	•	0000
90Ch.	7.	55.			•	574.	÷	٠	.0000
9500.	•	55.			,	574.	•	•	. 99301
0000	Š	55.			۲.	575.	<b>.</b>		.0000
02 00	•	24.			c.	575.		•	.0000
1000.	3	54.			æ	575.	•	•	.0000
1500.	2	34.			٧.	576.	<b>a</b> :	•	0000
2000	<b>:</b>	53.			9	77.	•	•	.0000
2503.	ċ	53.			~	77.	•	•	.0000
3000	ċ	53.			۲.	578.	ċ	•	.0000
75.00.	æ	25.			ď	578.		•	. 20501
* 0 U 0 *	2	25.			•	578.	ċ	•	• 0000u•
<b>.</b> 00 5 <b>.</b>	è	52.			57.8	578.	•	•	0001
SC 00 •	\$	25			ť	578.	•		10001
55 CG •	,	<b>.</b>			,	578.	٠,	•	.0000.
· 00 00	;	25			5 4 8 8	578.	•	•	0000
65 CG •	'n	52.			<u>۰</u>	5.73		•	.0000
70.03.	ċ	, 2 ·				579.		•	.0000.
7500.	<b>-</b>	52.			ċ	579.	_	•	.0000
3000.	<b>-</b> -	52.			<b>.</b>	579.	•	•	10000
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9000	ċ	51.			ċ	579.	•	•	.0000.
55CJ.	٥.	51.			45.5	580.	7.77	•	.0000.
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ិខ្មារ	,	· 6 7			٥	583.	~	•	วจาจก

UPPER ATR DATA	1110063316	æ 3 .	
	STATION ALTITUDE 3997. TO FEET MSL	1000 PRS MST	_
	STATION ALTITUDE	1C APR. R4	ASCENSION NO.

TABLE   CONT.   CONT	STATION AL	TITUBE 399	•	1 I	_	UPPER AIR DATA 1710063316	DATA 16		GE 0 DE 11 C	COORBINATE
TABLE   Cont'd	ပေဖ	NO. 16	0	T S T		œ 3 د			₩ С	4 ~
						TABLE 1	1 Cont'd			
MILLIBARS DEBREES CENTIGRADE   METER   MINOTS DEGREES(TH) NOTS REFRACTION   S7.4   S83.9   72.2   15.0   1.000   1.0	GEOME TR 1C	RESSUR	16	Œ	EL.HUM	PENSITY	PEED 0		ITA	INDEX
MILLIBARS DEBRES CENTIGRADE   METER   KNOTS   DEGREES(T4)   KNOTS   RFFRACTI	ALT IT UD E		$\overline{}$		PFRCENT	C.M.CUBIC	SOUND	DIRECTION		<b>J</b> O
S	_	œ	ESRFE	ENT 164 AD		E T E	KNOTS	EGREES(TA	¥0.4	FFRACTIO
45.0.0       73.6       -68.7       14.6       1.000         45.0.0       -47.8       -47.4       -47.9       -47.4       -	. Vi Si	•	-68.5			37.4		72.2	15.0	0000
55.0.         73.0         -47.8         70.7         16.7         10.0           55.0.         -47.4         35.7         585.3         73.8         16.9         10.0           55.0.         22.5         -47.4         35.7         585.3         73.8         16.9         10.0           55.0.         22.5         -46.4         35.3         586.7         82.8         15.9         10.0           55.0.         21.5         587.2         87.1         17.7         10.0 <t< td=""><td>4060</td><td><math>\sim</math></td><td>-63.1</td><td>•</td><td>•</td><td>36.5</td><td></td><td>5 R . 7</td><td>14.6</td><td>0000</td></t<>	4060	$\sim$	-63.1	•	•	36.5		5 R . 7	14.6	0000
5000.0         22.5         -47.4         1.0         34.7         585.3         71.8         16.9         1.00           5500.0         22.0         -66.7         1.0         37.3         586.2         73.4         15.1         1.00           6500.0         21.5         -66.7         37.3         586.2         73.4         15.1         1.00           6500.0         21.5         -66.0         37.3         586.2         73.4         15.7         1.00           700.0         20.2         56.1         -65.0         37.7         587.6         91.1         18.2         1.00           7500.0         10.6         -65.0         20.2         588.4         95.2         1.00           7500.0         10.6         -65.0         20.2         20.2         10.1         10.2         1.00           7500.0         10.6         10.6         20.2         20.2         10.2         1.00         1.00         1.00         1.00           7500.0         10.0         10.0         20.2         20.2         10.2         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00	45.0.	m	-47.8	٠		35.5		20.2	16.7	0000
5500.0         22.0         -47.1         37.9         585.8         73.7         15.7         1.000           51.5         -46.7         37.1         586.7         82.9         15.7         1.000           50.0         -46.0         50.5         58.5         87.1         17.7         1.000           750.0         -46.0         50.5         587.6         91.1         18.7         1.000           750.0         -46.0         50.5         587.6         91.1         17.7         1.000           750.0         -46.0         50.0         587.6         91.1         18.2         1.000           850.0         19.2         -46.3         58.6         95.7         18.1         1.000           850.0         19.2         -46.3         69.2         10.0         10.0         10.0           850.0         18.3         -42.9         58.6         95.7         18.1         1.000           850.0         18.3         -42.9         58.5         10.0         10.0         10.0           850.0         18.3         -42.9         58.5         10.0         10.0         10.0           10.0         15.0         -40.9         <	ى داداداد	~	7.27-	•		34.7		71.8	16.9	<b>0000</b> 0
\$7.5 586.7 82.8 15.8 1.000 50.5 -46.6 -46.0 37.5 586.7 82.8 15.7 1.000 50.5 -46.0 37.5 587.2 87.1 16.7 1.000 50.5 -46.0 37.5 587.2 87.1 18.2 1.000 50.5 -46.3 5.6 5.6 5.6 5.6 5.7 5.6 5.7 1.000 50.5 -46.3 -46.3 5.6 5.6 5.6 5.6 5.7 5.6 5.7 1.000 50.5 -46.3 -42.0 5.6 5.6 5.6 5.6 5.6 5.7 1.000 50.5 -46.3 -42.0 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	5500.	$\sim$	-47.1	•		37.9		73.1	15.1	0000
50000       21.0       -65.4       50.5       586.7       82.9       15.7       1.000         70000       20.5       -66.0       31.5       587.2       87.1       17.7       1.000         75.00       -66.0       30.7       587.6       91.1       18.2       1.000         75.01       -65.0       -65.0       20.2       20.2       10.00         85.01.0       19.2       -64.3       20.2       20.2       10.00         85.01.0       19.2       -64.3       20.2       10.00       10.00         85.01.0       19.2       -62.3       20.2       10.00       10.00       10.00         85.01.0       17.2       -62.3       27.7       591.1       10.00       10.00       10.00         10.00.0       17.1       -62.9       27.7       592.0       105.2       10.00       10.00         10.00.0       17.1       -60.7       27.5       593.7       105.2       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00	دوروه.	•	1.97-			37.1		C 88 Z	15.8	0000
70.00.0         21.5         587.2         87.1         17.7         1.000           75.00.0         -65.0         50.9         588.4         95.2         18.2         1.000           80.0         -65.0         -65.0         20.2         588.4         95.2         18.1         1.000           80.0         -64.3         20.2         589.3         99.7         18.1         1.000           80.0         -64.3         20.2         27.7         99.2         10.00         17.8         1.000           80.0         18.8         -62.9         27.7         591.1         10.4         10.00	• C3 59	•	7.51-			32.3		3.2.	15.7	0000
75 CT-0         76.1         -65.6         91.1         18.2         1.000           85 OT-0         19.6         -65.0         588.4         95.2         18.1         1.000           85 OT-0         19.2         -64.3         99.7         18.1         1.000           85 OT-0         19.2         -64.3         99.7         18.1         1.000           95 OT-0         19.2         -64.3         99.7         18.1         1.000           95 OT-0         19.2         -64.3         99.7         18.1         1.000           95 OT-0         19.3         19.3         19.3         1.000           95 OT-0         17.5         -62.3         27.2         592.9         105.5         1.000           10.0         17.1         -63.9         27.2         593.9         105.5         1.000           15.0         16.0         -60.5         27.2         593.9         105.0         17.2         1.000           15.0         16.0         16.0         16.0         17.2         1.000         17.2         1.000           15.0         16.0         16.0         16.0         16.0         17.2         1.000           16.0	7000	0	0.99-			21.5		87.1	17.7	000
85.01.0     19.6     -45.0     20.2     589.3     90.7     18.1     1.000       85.01.0     19.2     -44.3     90.7     18.1     1.000       85.01.0     18.8     -43.6     18.3     10.3     18.3     1.000       95.02.0     18.3     -42.9     10.3     17.8     1.000       95.03.0     17.9     -42.9     10.3     17.2     1.000       10.03.0     17.1     -42.9     10.0     17.2     1.000       10.03.0     17.1     -40.9     25.1     593.9     105.7     1.000       10.03.0     15.0     -40.5     24.5     594.0     100.7     1.000       10.03.0     15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     100.7     1.000       15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     1.000       15.0     -40.5     27.5     594.3     1.000       15.0 </td <td>ار در د</td> <td>C</td> <td>-45.6</td> <td></td> <td></td> <td>30.7</td> <td></td> <td>91.1</td> <td>18.2</td> <td>000</td>	ار در د	C	-45.6			30.7		91.1	18.2	000
85 GALO     19.2     -44.3     99.7     18.1     1.000       50 DE     18.8     -43.6     19.3     104.7     100.3       50 DE     18.8     -42.9     100.3     17.8     100.3       50 DE     18.3     -42.9     17.8     17.8     100.3       65 CO DE     17.9     -42.3     17.2     17.0       15 CO DE     17.1     -40.9     15.7     100.0       15 CO DE     16.4     -40.5     24.5     594.0     100.5       15 CO DE     15.2     -40.5     27.5     594.3       16 CO DE     15.2     -40.5     100.0       17 CO DE     15.0     17.7     1.000       17 CO DE     15.0     17.7     1.000       18 CO DE     15.2     -40.5     100.0       18 CO DE     15.0     15.0     17.7       18 CO DE     15.0     15.0     17.7       18 CO DE     15.0     17.7     10.0       18 CO DE     15.0     17.7	800J	0	-45.0			6*62		95.2	18.1	000
\$0.00     \$0.00	يرين ي.	o	-44.3			20.2		2.00	18.1	300
95 [0]     18.3     -42.9     17.8     17.0       CCOT.0     17.9     -42.3     27.1     592.0     105.7     17.2     1.000       CCOT.0     17.5     -41.6     24.4     592.9     106.4     15.7     1.000       100.0     17.1     -40.9     25.7     593.9     105.5     16.7     1.000       150.0     17.1     -40.7     24.5     594.0     17.2     1.000       250.0     16.0     -40.5     24.5     594.0     17.7     1.000       250.0     15.7     -40.5     24.5     594.0     17.7     1.000       25.0     15.7     -40.5     22.5     594.1     1.000       25.0     15.3     -40.5     10.00     17.2     1.000       25.0     15.3     -40.5     10.00     17.2     1.000       25.0     15.3     -40.5     10.00     17.2     1.000       25.0     15.0     15.0     17.2     1.000       25.0     594.3     10.00     11.000       14.7     -40.3     25.0     594.3     11.000       15.0     14.7     -40.3     11.000     11.000	• 20 05	ďζ	-43.6			28.5		C	#. • 60 €	COU
CCOT.G     17.9     -42.3     24.4     592.0     105.7     17.2     1.000       CSCO.D     17.5     -41.6     24.4     592.9     106.4     15.7     1.000       100.D     17.1     -40.9     25.7     593.9     105.5     16.7     1.000       150.D     16.8     -40.7     24.5     594.0     103.0     17.2     1.000       250.D     16.0     -40.7     24.5     594.0     100.5     17.7     1.000       250.D     15.7     -40.5     24.5     594.1     1.000       25.D     15.3     -40.5     27.5     594.3     1.000       25.D     15.0     -40.5     27.5     594.3     1.000       25.D     594.3     1.000     1.000       25.D     594.3     1.000     1.000       25.D     594.3     1.000       25.D     594.4     1.000       14.7     -40.3     27.0     594.3       15.0     14.7     -40.3     1.000	95.69	œ	-42.9			27.7		0	17.8	000
C5C0.0     17.5     -41.6     24.4     592.9     106.4     15.7     1.000       10C0.0     17.1     -40.9     25.7     593.9     105.5     16.7     1.000       15C0.0     16.8     -40.7     24.5     594.0     100.0     17.2     1.000       25C0.0     16.0     -40.5     24.5     594.0     100.0     17.7     1.000       25C0.0     15.7     -40.5     27.5     594.1     1.000       25C0.0     15.3     -40.5     27.5     594.3       4500.0     15.0     -40.4     1.000       4500.0     14.7     -40.3     27.5     594.3       4500.0     14.7     -40.3     27.0     594.4	( <b>000</b> )	~	-42.3			27.1		105.1	17.2	333
1000.0 17.1 -43.9 16.7 1.000 15.0.1 16.8 -40.7 25.1 593.9 103.0 17.2 1.000 17.0.2 16.0 16.4 -40.7 24.5 594.0 100.5 17.7 1.000 25.0.1 16.0 -43.6 24.0 594.2 1.000 25.0 15.3 -40.5 27.5 594.3 1.000 27.0 594.3 1.000 45.0 -43.4 25.0 594.4 1.000	02 60	~	-41.6			7		106.4	15.7	000
15CO.C 16.8 -60.7 24.5 594.0 103.0 17.2 1.000 25.0 394.0 100.5 17.7 1.000 25.0 394.0 100.5 17.7 1.000 25.0 394.0 100.5 17.7 1.000 25.0 394.1 10.000 15.7 -60.5 27.5 594.2 17.00 27.5 594.2 17.00	10:00	~	6.67-			25.7		105.5	16.7	. noo
24.5 594.0 100.5 17.7 1.000 24.5 594.0 100.5 17.7 1.000 25.0 594.0 100.5 17.7 1.000 25.0 594.1 10.000 10.5 17.7 1.000 25.0 594.1 10.000 15.7 1.000 27.5 594.3 10.000 15.0 15.0 14.7 14.7 14.00 27.0 594.4 10.000 11.000 14.7 14.7 14.00 14.7 14.00 14.000 14.7 14.00 14.000	1500.	•	7.01-			25.1		103.0	17.2	999
25.00.0 15.7 -40.5 24.0 594.2 11.000 27.5 594.2 15.3 -40.5 12.0 594.3 11.000 45.00.0 15.0 -40.4 22 11.000 45.00.0 15.0 -40.4 12.0 12.0 594.3 11.000	1000	•	•			24.5		100.	17.7	000
3000.6     15.7     -40.5     27.5     594.2       25.0     594.3     1.000       4000.0     15.0     -40.4     27.5     594.3       4500.0     14.7     -40.3     27.5     594.4       4500.0     14.7     -40.3     1.000	25 C <sup>.</sup> 0 •	O	•			24.0				009
27.09.0 15.3 -40.5 15.00 27.0 594.3 15.00 15.0 -40.3 15.00 27.0 594.3 15.00 15.00 14.7 -40.3 15.00 27.0 594.4	30.00	~	•			55				000
4500°F 15.0 -43.4 22.0 594.3 1.000 450F.0 14.7 -40.3 22.0 594.4 1.000	3.F. C.D.	\$	•			2.1.0				200
25.0 56.4 4.7 -40.3 22.0 594.4 1.303	.0007	Š	~			22.5				000
	* JC 57	4	•			22.0				000

<b>~</b>	TUDE 3097.39 FEET #SL	100m HRS WST	. 16
	STATION ALTITUDE	10 APR. 84	ASCFUSION NO. 1

	GEDDETIC COORDINATES		
PAHGATORY LEVELS	1710350316	œ <b>E</b> ✓	TABLE 12

TABLE 12

EES CENTIGRADE 13.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14	PRESSUPE 6	GEOPOTENTIAL	- :	ATURE	REL. HUM.	O ONIX	1 T A
50.0 6534. 5.8 -13.5 -13	•	FEET	AIK EGREES C	4 Z		DE GREES (TW)	KWOTS
90.0     65.2     -15.0       50.0     8255.     2.4     -18.7       50.0     10085.     5.8     -16.7       50.0     12070.     3.8     -16.7       50.0     14186.     -25.0     19.       50.0     14186.     -10.1     -25.0     19.       50.0     14186.     -26.4     -38.3     26.       50.0     24287.     -26.4     -38.3     26.       50.0     24287.     -64.2     -28.3     26.0       50.0     4569.     -64.2     26.2       50.0     4569.     -64.2     32.       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     4569.     -66.2     26.3       50.0     <	5	-		_		0.	3.6
50.0	50	6.34.		_		55.7	4.3
50.0 10085. 5.8 -18.8 15.00.0 12070. 3.8 -16.7 21.00.0 141863.8 -20.6 20.0 141863.8 -20.6 20.0 141864.8 -25.0 19.0 20.0 245.2 -26.4 -38.3 20.0 245.2 -26.4 -38.3 20.0 245.2 -26.4 -38.3 26.0 20.0 245.2 -44.0 32.0 20.0 245.2 -65.0 20.0 245.2 -65.0 20.0 25.0 25.0 25.0 25.0 25.0 25.0 2	5	8255.	•	_	0	98.3	18.1
50.0 12070. 3.8 -16.7 21.00.0 141843.3 -20.6 20.50.0 141843.3 -20.6 20.50.0 14188710.1 -20.3 19.50.0 21.5215.2 -33.7 20.50.0 2458524.4 -38.3 26.50.0 2458544.0 22.9 -44.0 32.9 20.0 2458565.0 20.0 24586965.1 20.0 25.0 45.0 -65.1 20.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	5	900	•	- 1	5	17.4	11.7
50.0 141843 -20.6 20 50.0 164514.8 -25.0 19 50.0 1888710.1 -20.3 19 50.0 2152216.2 -38.3 26 50.0 2428524.4 -38.3 26 50.0 2428763.0 -44.0 32 50.0 4289765.5 50.0 4289765.5 50.0 4289765.5 50.0 4289765.3 50.0 6387360.8 50.0 6387360.8 50.0 6387360.8 50.0 6387360.8 50.0 6387360.8 50.0 6387360.8 50.0 6387360.8	5	202	•	•	-	32.1	36.1
50.0 16451.	ر. 0	14184.	•		0	24.0	40.7
50.0 1888710.1 -20.3 19 50.0 2152215.2 -33.7 20 50.0 24:8524.4 -38.3 26 50.0 7752352.9 -44.0 32 50.0 7752351.2 50.0 7499563.0 75.0 4990665.1 50.0 4870762.0 70.0 6073662.0 70.0 6073662.7 70.0 6073655.3 70.0 72:1051.9 70.0 6387360.8 70.0 72:1051.9 70.0 72:1051.9 70.0 72:1051.9	50	16451.	•	•	0	19.2	54.4
50.0 2152216.2 -33.7 20.00.0 24.8524.4 -38.3 26.50.0 24.8524.4 -38.3 26.50.0 24.9544.0 32.0 -44.0 32.0 20.0 210.2 20.0 25.0 24.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25	CC	18767.	5	•	0		41.5
55.0 74:8524.4 -38.3 2 55.0 7752352.9 -44.0 3 50.0 7499551.2 57.0 7499563.0 75.5 429765.5 57.0 4290565.0 77.0 6073662.7 50.0 6387360.8 50.0 72:1055.3 57.0 72:1055.3	5	21522.	15.		0	24.5	40.5
59.0 7752332.9 -44.0 3 50.0 7499551.2 50.0 7499551.2 50.0 429763.0 50.0 429765.5 50.0 427662.0 50.0 6387362.7 50.0 6387360.8 50.0 7251053.1 50.0 8231249.1 50.0 935445.6	S	24.785.	24.	•	26.	21.7	7.79
50.0 3101841.2 50.0 3499551.2 7.0 429765.6 50.0 4536966.2 25.0 4900565.1 80.0 535061.9 80.0 6387360.8 50.0 6387360.8 50.0 7251053.1 25.0 8231249.1 27.0 935445.5	53	77523.	32	•	32.	18.8	43.5
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AT LEAST ONE ASSUMED RELATIVE HUMINITY VALUE WAS USED IN THE INTERPOLATION.

: 4751.33 FEET WSL 3957 HRS MST	7
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STATION AL	DECENSION NO.
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SOURCE CONTRACTOR DESCRIPTION OF THE SOURCE

0474		
LEVEL	38 LCa !	
SIGNIFICANT	10100	JALLEN

TABLE 13

REL.HUM. PERCENT TEMPERATURE AIR DEMPOINT DESPEES CENTISRADE PRESSUAT GENMETRIC ALTITURE MILLIBARS MSL FEET

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	C.1.07	476.	977.	435.	877.	n112.	3262.	7657	1255.	. 5645	·016.	676a	. 1537	5753.	0975.	1.127.	1733	9416.	27.5.	.7626	1338.	1220.	4078.	.645.	7073.	.212.	1328.	-7162	1787.	£278.	9540.	1134.	1316.	\$ C48.	4472.	.9116	6961.	221.	1475.	7916.
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GF09E71C CU0ADINATES 31,15712 LAT 9EG 106-49511 LON 9EG

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TRATION ALTITUDE 4751,33 FEET MSL 10 APR. R4 0957 HRS MST ASCARSION NO. 74

SIGNIFICANT LEVEL DATA 1710070334 JALLEN

GEODETIC COORDINATES 33-15712 LAT NEG 106-49-11 LON REG

TABLE 13 Cont'd

REL.HUM. Percent TEMPERATURE AIR DEWPOINT DEGREES CENTISRADE

POESSURF CLOMETRIC ALTITUDE WILLIBARS YSL FEFT

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14.5 95026.1 14.5 95143.3 11.3 137551.9 4.5 107256.2

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MOSU HAS MST

UPPER ATR DATA 1717779934

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LOW 9EG 1.000172 1.000193 1.00010 1.000187 1.000178 1.000117 1.000112 1.000112 1.000244 1.000241 1.0002\*3 .303184 1.000192 .0001 5 .1031'e 2 4 1000. 8,LiOi. .0001 7.5000.1 . 100n. . 1001.5 \$21000. . 300143 . 555141 1,0001 RFFRACTION 1.0001 45.2 43.0 46.1 45.1 45.2 SPEED KWOTS WIND DATA DIRECTION SE 315.6 315.7 314.1 314.0 420.4 422.7 422.4 424.5 SPEED OF SOUND FENSITY CALCUSTC 2.099 650.7 JALLFN METER RE L. HUM. \*ILLIBARS DESREES CENTIGRADE TEMPERITURE IS DEMPOINT CTATION ALTITUDE 4751.79 FFET YSL -1.5 -2.7 -3.5 -5.1 -5.3 -7.5 9 I e ASCARSTON NO. 16 153. 94 reowero;c MSE FLET

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UPPER AIR DATA

UPFER AIR DATA 1010010334 JALLEN CTATION ALTITUDE 4051.00 FFET 45. TO APA. BL. ASCENSION NO.

GEDDETIC COORDINATES 33,16712 LAT PEG 106,49511 LON PEG TABLE 14 Cont'd

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TATION AL L FPR. S. SCENSION	LTITURE 47)	51.33 FEET #SL COS1 HRS 45 T	2	UPPER AIR 10100°00 JALLEN TABLE	<b>DATA</b> 34 14 Cont'd	-	GEODETI 33. 136.	C COOKDINATES 16712 LAT DEG 49511 LON DEG
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GEODETIC COGRAINATES
33.16712 LAT PEG
106.49511 LON PEG TABLE 14 Cont'd

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GFODETIC CHORDINATES 33.16712 LAT PEG 106.49511 LON PEG		IND FX Of Refraction	1.000063	1.00000	1.000003	1.0000-1	1.399973	1.000073	1.000003
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		WINN DATA DIRECTION SE	340.1	432.0					
5 4 T A	TABLE 14 Cont'd	SPEED OF SOUND KNOTS	14.5 597.1	597.0	506.9	595.8	596.7	596.6	596.5
Unper AIR DATA 1010ut3354 JALLEN	TABLE 1	METER	14.5	14.2	11.9	13.5	17.5	13.1	9,00
ב ס		REL.HUM. P. P. STIY SPEED OF P. RCENT CM/CUBIC SOUND MFTER KNOTS							
51.33 FELT MSE 3957 HKS #37		TEMPERALLIKE AIS DEWFOINT LESSEE THEFORM	-*3.3	5.61	7.8.	-*3.5	-18.5	0.01	7.61-
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MAYUATOAY LEVELS 1710/70334 JALEN

TABLE 15

GEODETIC LUORDINATES 37,16712 LAT PEG 154,49511 LON PEG

WILLIAMSS	<b>—</b> √ √	AIR ret Vegrees C	DEMPOSAT FATIGRADE	PERCENT	DIRECTION DEGREES(TV)	N SPEEL
C • C C C	. b. c. 4	12.1	-17.7	15.	17	7.2
7	\$ 0.00 G	7.7			٠.	•
	3.54.	۲.,	-13.	•	,	C
ţ.,	10101	.,	- 20.	15.	2	2.26
C	12.50	4.5	4	C	·	<b>a</b> n
Ċ	14730.	٠.	·	21.	6.3	~
L	16484.	-3.9	-27.7	0	3	•
	18024.	a • 6-	•	19.	320.2	4.8.4
•	. 25, 10	- 15.5		25.	9	68.5
C	. 44.19.	- 24 . 3	-35.6	•	-	oc)
	.1956	- 12 - 0	5	4	7.4.	- 57
۷	.1768.	- 40.3			6 2	63.5
	*5.50.	-51.0			φ. •	46.3
L.	,47.62	- 60.1			7.	0.63
L	*55.27	- 65.1			0	`
Ċ	.5477	-61.8				7.65
L	49134.	- 65.2			95.	4.1.4
•	4777 J	- 63.2			71.	റ
	rs 197.	-61.1			0	11.2
c .	130°C	<b>5.65</b> –				ത
_	*4,04.	-53.3			r 'S	12.0
r	. 25,24	1.5.1			,	8.
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	03017.	-41.4			,	13.5
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FT LEAST ONE ASSUMED RELATIVE HUMINITY VALUE WAS USEN IN THE INTERPOLATION.